

U. S. PLANT PATENT APPLICATION OF

LEONARDUS W. B. M. van RIJN

FOR: ANTHURIUM PLANT NAMED

‘TRUE LOVE’

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TITLE: ANTHURIUM PLANT NAMED 'TRUE LOVE'

APPLICANT: LEONARDUS W.B.M. van RIJN

BOTANICAL CLASSIFICATION/CULTIVAR DESIGNATION:

Anthurium andreanum cultivar True Love

5 BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of Anthurium plant, botanically known as *Anthurium andreanum*, and hereinafter referred to by the name 'True Love'.

10 The new Anthurium is a product of a planned breeding program conducted by the Inventor in Schipluiden, The Netherlands. The objective of the program is to create and develop new compact, freely clumping and freely flowering Anthurium cultivars with strong roots, dark green leaves, attractive spathe color, and good inflorescence longevity.

15 The new Anthurium originated from a cross by the Inventor in 1999 of a proprietary selection of *Anthurium andreanum* identified as code number 9515, not patented, as the female, or seed, parent with a proprietary selection of *Anthurium andreanum* identified as code number 9715, not patented, as the male, or pollen, parent. The cultivar True Love was discovered and selected by the Inventor as a flowering plant within

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the progeny of the stated cross in a controlled environment in Schipluiden,
The Netherlands in July, 2000.

Asexual propagation of the new cultivar by meristem culture in a
laboratory in Belgium since July, 2000, has shown that the unique features
5 of this new Anthurium plant are stable and reproduced true to type in
successive generations of asexual propagation.

BRIEF SUMMARY OF THE INVENTION

The new Anthurium has not been observed under all possible
environmental conditions. The phenotype may vary somewhat with
10 variations in environment such as temperature and light intensity, without,
however, any variance in genotype.

The following traits have been repeatedly observed and are
determined to be the unique characteristics of the cultivar True Love.
These characteristics in combination distinguish 'True Love' as a new and
15 distinct cultivar:

1. Upright and outwardly spreading plant habit.
2. Freely clumping growth habit.
3. Durable dark green leaves.
4. Red-colored spathes with yellow orange-colored spadices
20 that are positioned slightly above and beyond the foliage on
strong and erect scapes.

5. Freely flowering habit.
6. Good inflorescence longevity.

Plants of the new Anthurium can be compared to plants of the female parent, the proprietary selection identified as code number 9515.

5 In side-by-side comparisons conducted in Schipluiden, The Netherlands, plants of the new Anthurium differed from plants of the selection 9515 in the following characteristics:

1. Plants of the new Anthurium were more compact than plants of the selection 9515.
- 10 2. Plants of the new Anthurium and the selection 9515 differed in spathe coloration as plants of the selection 9515 had white, red and green tri-colored spathes.

Plants of the new Anthurium can be compared to plants of the male parent, the selection 9715. In side-by-side comparisons conducted in
15 Schipluiden, The Netherlands, plants of the new Anthurium differed from plants of the selection 9715 in the following characteristics:

1. Plants of the new Anthurium had darker green-colored leaves than plants of the selection 9715.
2. Plants of the new Anthurium and the selection 9715 differed
20 in spathe coloration as plants of the selection 9715 had orange-colored spathes.

Plants of the new Anthurium can be compared to plants of the cultivar Red Love, disclosed in U.S. Plant Patent number 11,005. In side-by-side comparisons conducted in Schipluiden, The Netherlands, plants of the new Anthurium differed from plants of the cultivar Red Love in the following characteristics:

1. Plants of the new Anthurium had flatter and fleshier leaves than plants of the cultivar Red Love.
2. Spathes of plants of the new Anthurium were flatter, thicker and more red in color than spathes of plants of the cultivar Red Love.
3. Spathes of plants of the new Anthurium turned green in color more slowly than spathes of plants of the cultivar Red Love.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying colored photographs illustrate the overall appearance of the new Anthurium, showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type. Colors in the photographs may differ slightly from the color values cited in the detailed botanical description which accurately describe the colors of the new Anthurium.

PROPAGATION:

Method: By meristem culture.

Time to initiate roots on a meristem-cultured plant: About 28 days at 20 to 24°C.

5 Time to develop roots on a meristem-cultured plant: About 270 days at 20 to 24°C.

Root description: Thick, fleshy, dark pink to cream-colored; lateral roots, thick and abundant.

PLANT DESCRIPTION:

10 Plant shape: Upright and outwardly spreading plant habit, broad inverted triangle, symmetrical.

Growth habit: Freely clumping, bushy and dense growth habit; about nine clumps per plant. Appropriate for 14-cm containers; moderately vigorous.

15 Plant height, from soil level to top of leaf plane: About 25 cm.

Plant height, from soil level to top of inflorescences: About 30 cm.

Plant diameter or spread: About 38 cm.

Crop time: About ten months are usually required from planting of young plants to finished plants in a 14-cm container.

20 Foliage description:

Arrangement: Alternate; simple.

- Quantity per plant: About 45.
- Length: About 12.9 cm.
- Width: About 7.8 cm.
- Shape: Deltoid.
- 5 Apex: Apiculate.
- Base: Cordate.
- Margin: Entire.
- Texture, upper and lower surfaces: Leathery; glabrous, smooth; durable.
- 10 Venation pattern: Pinnate.
- Color:
- Developing leaves, upper surface: More green than 146A.
- Developing leaves, lower surface: 146A to 147B.
- 15 Fully developed leaves, upper surface: Between 147A and 139A.
- Fully developed leaves, lower surface: 146B.
- Venation, upper surface: 146B.
- Venation, lower surface: 146C.
- 20 Petiole:
- Length: About 15.7 cm.

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Diameter, just below geniculum: About 3.5 mm.

Diameter, at plant base: About 4.5 mm.

Texture: Smooth, glabrous.

Color: 146B.

5 Geniculum length: About 1.7 cm.

Geniculum diameter: About 4 mm.

Geniculum color: 146B.

Wing length: About 1.8 cm.

Wing diameter: About 4 mm.

10 Wing color: 182C.

INFLORESCENCE DESCRIPTION:

15 Inflorescence arrangement: Spathes with spadices held slightly above and beyond the foliage. Flowering structures arise from leaf axils. Freely and continuous flowering during the autumn in Schipluiden, The Netherlands. Typically about nine inflorescences per plant. Inflorescences not fragrant.

Inflorescence longevity: Inflorescences last about two months under winter conditions and about three months under summer conditions; inflorescences persistent.

20 Spathe:

Length: About 5.3 cm.

- Width: About 6.6 cm.
- Shape: Reniform with cordate tendencies.
- Apex: Abruptly acute to mucronulate.
- Base: Cordate.
- 5 Margin: Entire.
- Texture, upper and lower surfaces: Leathery; glabrous, smooth.
- Aspect: Slightly cupped.
- Color:
- 10 When opening, front surface: 46C; towards basal margins, 177C to 177D.
- When opening, back surface: 47B; towards basal margins, 177D.
- 15 Fully developed, front surface: 46C. With development, color becoming closer to 53A to 53B; towards basal margins, 146A.
- Fully opened, back surface: 50A; towards basal margins, 51C.
- Spadix:
- 20 Length: About 3.2 cm.
- Diameter: About 6 mm.

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Shape: Columnar, tapering towards the apex; apex, obtuse.

Cross section: Rounded.

Aspect: About 10° from vertical.

Color:

5 Immature: 17C; towards the apex, 17D.

Mature: 27B to 27C; towards the apex, 23B to 23C.

Flowers:

Quantity per spadix: Numerous, about 150.

Shape: Rounded.

10 Height: Less than 0.5 mm.

Diameter: About 0.8 mm.

Reproductive organs:

Androecium:

Anther color: 11D.

15 Amount of pollen: Scarce.

Pollen color: 11C.

Gynoecium:

Stigma shape: Ovoid.

Stigma color: N155D.

20 Ovary color: N155D.

Scape:

Length: About 22.1 cm.

Diameter: About 3 mm.

Strength: Strong.

5 Aspect: Erect to slightly outwardly slanted to about 30°
from vertical.

Color: 144A; towards the apex, 146B.

Seed and fruit: Seed and fruit development has not been observed
on plants of the new Anthurium.

10 DISEASE/PEST RESISTANCE:

Under commercial production conditions, plants of the new
Anthurium have not been observed to be resistant to pathogens or
pests common to Anthurium.

TEMPERATURE TOLERANCE:

15 Plants of the new Anthurium have been observed to tolerate
temperatures from about 14 to 36°C.